

Jae Gang Kim

List of Publications by Year in descending order

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33
papers

526
citations

687363

13
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642732

23
g-index

33
all docs

33
docs citations

33
times ranked

162
citing authors

#	ARTICLE	IF	CITATIONS
1	State-resolved master equation analysis of thermochemical nonequilibrium of nitrogen. <i>Chemical Physics</i> , 2013, 415, 237-246.	1.9	150
2	Master Equation Study and Nonequilibrium Chemical Reactions for H + H ₂ and He + H ₂ . <i>Journal of Thermophysics and Heat Transfer</i> , 2009, 23, 443-453.	1.6	56
3	Thermochemical nonequilibrium parameter modification of oxygen for a two-temperature model. <i>Physics of Fluids</i> , 2018, 30, .	4.0	31
4	Thermochemical nonequilibrium modeling of oxygen in hypersonic air flows. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119059.	4.8	30
5	Master Equation Study and Nonequilibrium Chemical Reactions for Hydrogen Molecule. <i>Journal of Thermophysics and Heat Transfer</i> , 2010, 24, 281-290.	1.6	27
6	Modification of chemical-kinetic parameters for 11-air species in re-entry flows. <i>International Journal of Heat and Mass Transfer</i> , 2021, 169, 120950.	4.8	27
7	Master Equation Analysis of Post Normal Shock Waves of Nitrogen. <i>Journal of Thermophysics and Heat Transfer</i> , 2015, 29, 241-252.	1.6	20
8	Electronic-state-resolved analysis of high-enthalpy air plasma flows. <i>Physical Review E</i> , 2019, 100, 033203.	2.1	18
9	Evaluation System for Ablative Material in a High-Temperature Torch. <i>International Journal of Aeronautical and Space Sciences</i> , 2019, 20, 620-635.	2.0	18
10	Thermochemical nonequilibrium analysis of O ₂ +Ar based on state-resolved kinetics. <i>Chemical Physics</i> , 2015, 446, 76-85.	1.9	17
11	Analysis of nitrogen recombination activity on silicon dioxide with stagnation heat-transfer. <i>Acta Astronautica</i> , 2020, 177, 386-397.	3.2	15
12	Low-frequency shock train oscillation control in a constant area duct. <i>Physics of Fluids</i> , 2022, 34, .	4.0	15
13	Expansion of the equilibrium constants for the temperature range of 300K to 20,000K. <i>International Journal of Aeronautical and Space Sciences</i> , 2016, 17, 455-466.	2.0	14
14	Stagnation-point heating of Fire II with a non-Boltzmann radiation model. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119566.	4.8	12
15	Temperature determination in a shock tube using hydroxyl radical A-X band emission. <i>Physics of Fluids</i> , 2019, 31, 026109.	4.0	11
16	Stagnation-point heating and ablation analysis of orbital re-entry experiment. <i>Physics of Fluids</i> , 2021, 33, .	4.0	10
17	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. <i>PLoS ONE</i> , 2020, 15, e0240300.	2.5	9
18	Prediction of shock standoff distance with modified rotational relaxation time of air mixture. <i>Physics of Fluids</i> , 2021, 33, .	4.0	8

#	ARTICLE	IF	CITATIONS
19	Numerical and Experimental Study of the Effects of Surface Temperature and Oxygen Mass Flux on the Ablation of Carbon-Carbon Composites. <i>Applied Composite Materials</i> , 2021, 28, 529-557.	2.5	7
20	Analysis of wall partial pressure-dependence on oxygen surface catalytic recombination with shock-heated flow. <i>Case Studies in Thermal Engineering</i> , 2021, 28, 101600.	5.7	7
21	Determination of surface catalysis on copper oxide in a shock tube using thermochemical nonequilibrium CFD analysis. <i>Acta Astronautica</i> , 2022, 193, 75-89.	3.2	7
22	Effects of component geometries and inflow conditions on ejector operational mode. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 5003-5008.	1.5	6
23	Influence of catalytic wall on the effective radius of a blunt body geometry in a nonequilibrium hypersonic flow. <i>Case Studies in Thermal Engineering</i> , 2022, 35, 102085.	5.7	4
24	Rovibrational Nonequilibrium of Nitrogen Behind a Strong Normal Shock Wave. <i>International Journal of Aeronautical and Space Sciences</i> , 2017, 18, 28-37.	2.0	3
25	Evaluation of Fay and Riddell formula under hypersonic flight conditions. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2023, 33, 14-41.	2.8	3
26	CO ₂ number density measurement in a shock tube with preheated carbon surface. <i>Physics of Fluids</i> , 2022, 34, 067105.	4.0	1
27	Rovibrational Energy Transitions and Coupled Chemical Reaction Modeling of H+H ₂ and He+H ₂ in DSMC. <i>International Journal of Aeronautical and Space Sciences</i> , 2015, 16, 347-359.	2.0	0
28	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
29	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
30	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
31	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
32	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0
33	Thermochemical nonequilibrium flow analysis in low enthalpy shock-tunnel facility. , 2020, 15, e0240300.		0